

Message Text

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TO USMISSION OECD PARIS PRIORITY

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EXCON

E.O. 11652: XGDS-1

TAGS: ESTC, COCOM

SUJECT: COCOM LIST REVIEW:IL 1585, PHOTOGRAPHIC

REFS: A) STATE 266400

B) COCOM DOC REV (74)1585/1

C) OECD PARIS 8520

D) TTG REPORT, NOVEMBER 25, 1974

E) COMMERCE POSITION, DECEMBER 4, 1974

FOLLOWING IS POSITION ON SUBJECT ITEM:

1) OPPOSE UK COUNTERPROPOSAL RE SUB-ITEMS (A),(A)(1), AND

(A)(2) IN REF C. THIS COUNTERPROPOSAL: (1) DELETES

QUOTE EQUIPMENT UNQUOTE FROM HEADING AND IS UNACCEPTABLE

SINCE IT WOULD FREE THOSE CAMERAS WE CONSIDER NECESSARY

AND COVERED IN US-PROPOSED (A)(2); (2) UK LANGUAGE FOR

ITS (A)(1) WOULD RELEASE CAMERAS CAPABLE OF FILMING 1/2

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AND 1/4 FRAMES, WHICH WOULD INCREASE ACTUAL SPEED OF

THE CAMERA BEYOND THE 12,500 FRAME PARAMETER IN US-PROPOSED (A)(1); AND (3) WOULD RELEASE OPTICAL DEVICES, SUCH AS HEADS (I.E. PRISMS AND MIRRORS), WHICH ENABLE THE CAMERA TO EXCEED THE 12,500 FRAME SPEED PROPOSED BY US (A)(2). INTENT OF THIS UK COUNTERPROPOSAL APPEARS TO US AS ATTEMPT TO UNEMBARGO THE HYCAM CAMERA. USDEL SHOULD OPPOSE POSSIBLE UK PROPOSAL TO SUBSTITUTE 12,500 FRAME PARAMETER FOR 3,000 CUT-OFF IN CURRENT (A)(1) LANGUAGE SINCE EFFECT WOULD HAVE THE SAME UNACCEPTABLE RESULT AS THE UK (A)(1) COUNTERPROPOSAL.

2) ON UK ROUND I SUGGESTION (PARA 22, REF B) FOR INSERTION IN US-PROPOSED SUB-ITEM (A)(2) WE COULD ACCEPT INSERTION OF THE FOLLOWING WORDING AFTER QUOTE INTERCHANGEABLE WITH UNQUOTE: QUOTE ANY STANDARD CAMERA COMPONENTS THAT COULD BE ADDED TO THE EQUIPMENT IN (A)(1) FOR THE PURPOSE OF INCREASING THE NUMBER OF FRAMES PER SECOND BEYOND 12,500. UNQUOTE.

3) WE CANNOT ACCEPT DUTCH-SUGGESTED INSERT IN SOU RE DELETION OF (D) (SEE PARA 53 OF REF B). WE SEE NO DIFFERENCE BETWEEN CAMERA SYSTEMS USED IN CIVIL SPACE VEHICLES AND MILITARY SPACE VEHICLES. THE CAMERAS USED IN A WEATHER SATELLITE, FOR EXAMPLE, ARE IDENTICAL TO THOSE USED IN A MILITARY RECONNAISANCE SATELLITE. YOU MAY AMEND PROPOSED SOU, HOWEVER, BY DELETION OF REFERENCE TO IML 4 AND IML 11 (SEE PARA 55 OF REF B). WE WERE OVERCAUTIOUS SINCE 4 AND 11 HAVE NO RELEVANCE. RETAIN REFERENCE TO IML 12 AND 15, HOWEVER, SINCE THESE ARE THE OPERATIVE IML ENTRIES.

4) OBJECT TO DELETION OF (C) PER ROUND I INSTRUCTIONS (REF A) AND OPPOSE ANY LAST MINUTE EFFORTS TO DELETE (G) AND (H). HIGH SPEED AND STREAK CAMERA ITEMS (B) AND (E) STILL SUBJECT TO TTG STUDY. YOU MAY USE FOLLOWING ARGUMENTS IN SUSTAINING US OBJECTION TO DELETION OF SUB-ITEM (C) AS WELL AS COUNTERING UK STATEMENTS IN PARA 41 OF REF B: STATE OF THE ART RE SINGLE FRAME IMAGE CONVERTER TUBES HAS NOW ADVANCED TO THE POINT WHERE THEY ARE ADEQUATE FOR USE IN SUCH

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STRATEGIC-AREA APPLICATIONS AS HYDRODYNAMIC AND PLASMA STUDIES IN WEAPONS DEVELOPMENT AND HIGH SPEED RANGE PHOTOGRAPHY. IN 1974, ITT AND BENDIX BEGAN PRODUCING MICRO-CHANNEL PHOTO MULTIPLIER (I.E. IMAGE INTENSIFIER/ IMAGECONVERTER) TUBES THAT CAN BE COMBINED WITH CONVENTIONAL OPTICS AND ELECTRONICS TO MAKE A SINGLE FRAME CAMERA WITH 400-1000 LINE PAIRS THAT IS GOOD FOR EXPOSURES OF LESS THAN 5 NANoseconds. A SET OF THESE

CAN BE COMBINED TO PROVIDE A MULTIPLE-FRAME TIME-SEQUENCE CAPABILITY. FURTHERMORE, ON AN OPERATIONAL BASIS THESE CONVERTER CAMERAS WILL EFFECTIVELY AMPLIFY THE LIGHT INTENSITY BY ABOUT A FACTOR OF 2 TIMES 10 TO THE FOURTH. WHEN CONSIDERING COMPETITION WITH THE BEST FRAMING CAMERAS ANYWHERE THIS GAIN IS MORE LIKE 10 TO THE SIXTH. THIS OVER-ALL CAPABILITY ENABLES THE OBSERVATION OF SUCH PHENOMENA AS EXPLOSIVE EVENTS THAT HAVE NOT BEEN ACCESSIBLE BEFORE.

5) SUBMIT SUB-ITEM (E) OF NOVEMBER 25, 1974 TTG (REF D) BUT WITH CHANGE IN SHUTTER SPEED PARAMETER OF 1 NANO-SECOND TO 1/10TH (0.100) MICROSECOND (100 NANoseconds). ONE NANOSECOND WOULD FREE CAMERAS USED BY DEFENSE HAVING 20 NANOSECOND SHUTTER SPEEDS. 1/10TH MICROSECOND (WHICH SOUNDS BETTER THAN 100 NANoseconds) PARAMETER WILL RETAIN CONTROL OVER THAT CAMERA AND ITS TECHNOLOGY.

6) REVISE US-PROPOSED SUB-ITEM (I) BY DELETING METAL CLAD AND HARDSURFACE COATED PLATES IF US PROPOSAL ON IL 1355 (RE PARAS 71 AND 72 OF REF B) IS ACCEPTED. ALSO DELETE FILM FROM PROPOSED SUB-ITEM (I).

7) IF GAMET REVIVES STATEMENTS MADE IN PARA 74 OF REF B, DEL MAY ANSWER THAT FRENCH OBSERVATIONS ARE NOT GERMANE TO ISSUE SINCE PHOTOGRAVURE AND TRICHROMATIC PLATES HAVE TOO COARSE A RESOLUTION AND THE EXPANSION COEFFICIENT ON TYPICAL PHOTO METAL PLATES FOR PRINTING USAGE IS ON AN ORDER OF MAGNITUDE MORE THAN THAT WHICH CAN BE TOLERATED FOR SEMICONDUCTOR WORK. VACATION PLAN OF MONTEAU (WHO RETURNS APRIL 14) HAS DELAYED FINALIZATION OF US POSITION AS PROPOSED IN REF E. WE HOPE TO HAVE FINAL POSITION PREPARED BY ROUND III, AS WELL AS BACK-UP CONFIDENTIAL

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MATERIAL TO REFUTE OBSERVATIONS MADE BY OTHER DELS. WE WILL ATTEMPT TO SUPPLY DUTCH-REQUESTED BROCHURES ON OPTICAL DEVICES ASKED FOR IN PARA 27 OF REF B DURING INTERIM BETWEEN ROUNDS. KISSINGER

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